

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 213 (CHURCH HILL RD.) AND SPANIARD NECK RD./WEXFORD RD. IN QUEEN ANNE'S COUNTY. MD 213 (CHURCH HILL RD.) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION IS CURRENTLY UNSIGNALIZED. THE INTERSECTION WILL NOW OPERATE IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH CONCURRENT SIDE STREET PHASING.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC ACTUATED EIGHT-PHASE CONTROLLER, ONE (1) FOUR-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA SIZE SIX BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. JEFFERY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 810-3240

VACANT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 810-3250

MR. BARRY CLOTHIER
UTILITY ENGINEER
(410) 810-3275

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7830

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. MIKE STOCKER
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9
	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 2 & 6	G	G	G	G	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
3 CY	TEST PIT EXCAVATION
160 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
220 LF	5 INCH YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
225 LF	5 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
90 LF	24 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
1 EA	WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "ONLY"
2 EA	WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
1 EA	CONTROLLER AND CABINET - BASE MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT
33 EA	12 INCH LED SIGNAL HEAD SECTION
12 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	16.5 FT. MAST ARM POLE & 70 FT. MAST ARM
1 EA	16.5 FT. MAST ARM POLE & TWIN 50 FT./60 FT. MAST ARMS
8 EA	ELECTRICAL HANDHOLE
15 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
50 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
890 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
145 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
10 LF	1 IN. LIQUID-TIGHT, FLEXIBLE, CONDUIT - DETECTOR SLEEVE
2 EA	REMOVE AND DISPOSE OF EXISTING "STOP" SIGN
2 EA	VIDEO DETECTION CAMERA AND CABLE
30 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
215 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
1 EA	METERED SERVICE PEDESTAL EMBEDDED
50 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.)
110 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1115 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
150 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
5 EA	3/4 IN. X 10 FT. GROUND ROD
2 EA	MICRO-LOOP PROBE WITH LEAD IN CABLE
2 EA	D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
1 EA	D-3(1) (VAR X 16") SIGN - MAST ARM MOUNT
1 EA	M85-1/D3-2 (78" X 40") - MAST ARM MOUNT
1 EA	R3-5L (30" X 36") SIGN - MAST ARM MOUNT
2 EA	R3-7L (30" X 30") SIGN - GROUND MOUNT
2 EA	D3-2(2) (VAR X 48") SIGN - GROUND MOUNT
2 EA	W3-3 (48" X 48") WITH "NEW" PANEL (24" X 24") AND FLAGS - GROUND MOUNT
1 EA	SHIELD ASSEMBLY (30" X 51") - GROUND MOUNT
1 EA	SHIELD ASSEMBLY (48" X 75") - GROUND MOUNT

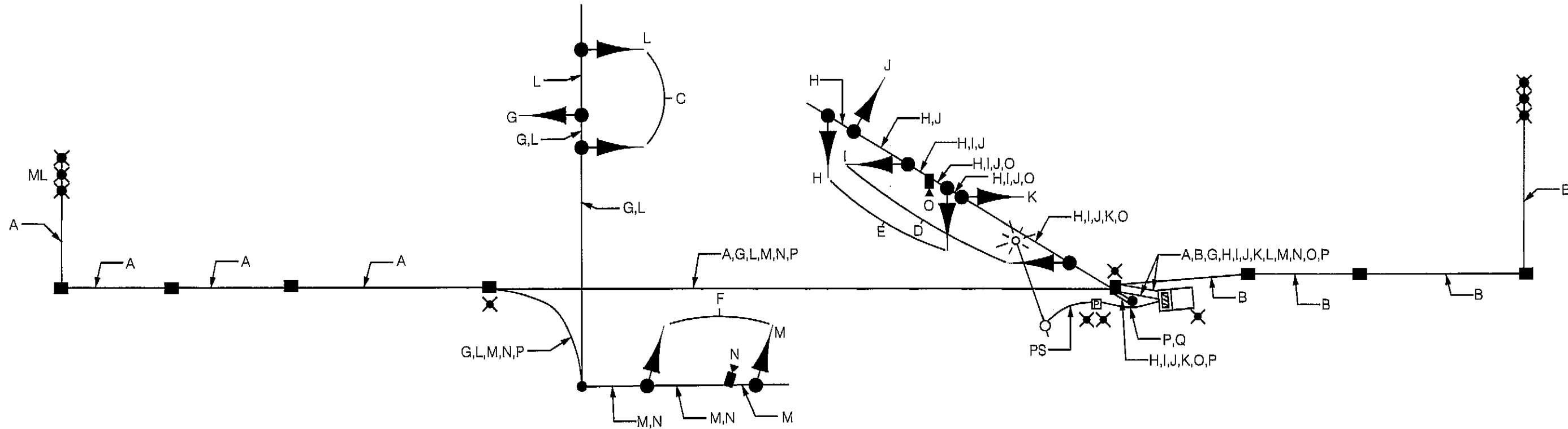
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY

A,B	MICRO-LOOP PROBE LEAD-IN
C-F	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G-M	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
N,O	VIDEO DETECTION CABLE
P	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
Q	1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) - 3 WIRES
ML	MICRO-LOOP PROBE
PS	PROPOSED ELECTRIC SERVICE GROUND ROD
[E]	METER SERVICE PEDESTAL

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\2000\2044\SIGNAL\3-11-11.dgn
DATE: Tuesday, May 24, 2011 AT 03:30 PM

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 213 (CHURCH HILL RD.) AND
SPANIARD NECK RD./WEXFORD RD.
CENTERVILLE, MARYLAND

GENERAL INFORMATION PLAN

SCALE NONE DATE 5-24-11 CONTRACT NO. BW996M82

DESIGNED BY	T. ZAYDEL	COUNTY	QUEEN ANNE'S
DRAWN BY	J. K. SCHMID	LOGMILE	17021308.93
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K-400
F.A.P. NO.	NA	TOD NO.	

DRAWING NO. TS - 4787 GI

SHEET NO. 2 OF 2